CSCE 121 Slide Set 2

What is ASCII? What is Unicode? What char types does C++ 11 support?

Slide 2

What is overflow? What is largest number a byte can hold? What is a roundoff error?

Slide 5, 6

What is type safety? What is ideal for static type safety? What is ideal for Dynamic type safety? Is it common for programming languages to be statically type safe? Is C++ statically type safe? Is it common for programming languages to be dynamically type safe? Is C++ dynamically type safe?

Slide 9, 10

What is implicit and explicit type conversion?

Slide 12

What is a narrowing conversion? How do you outlaw unsafe conversions?

Slide 12

What is a pointer? What is a reference? How do you use a pointer? How do you get the address of an operator using a pointer?

Slide 20, 21, 22, 23, 24

How do you dereference a pointer? Why are pointers considered dangerous? What is a way to think of a reference?

Slide 25, 26

What is the main purpose of pointers and references? Which is usually safer? What are the symbols for references and pointers?

Slide 30

What are the 4 main steps of the software development process? What is important to think about during each part? What is an algorithm? What are some tools to use for the second step in the process?

Slide 32, 33, 34, 35, 36, 37

What is ‘goto’ and what does it result in and what 3 things are hard to do with this? What are the 3 control structures? Describe the 3 control structures

Slide 39, 40, 41, 42, 43

Memorize how the flow charts of if, else if, and switch statements. Which of these 2 flow charts are the same? What is a switch fall through? What does it look like in code and on a flowchart?

Slide 45, 46, 47, 48, 49

How do you use a switch statement?

Slide 50

What are the conflicting ideals of programming? What is a new ideal that is coming to be important? What happens if one ideal is focused on (think of the other ideals)?

Slide 52, 53, 54

What are the parts of a loop and describe them.

Slide 56

What are things to think about when creating a loop?

Slide 57

What are the flowcharts of a while, do while, and for loop? What are the 3 ways to control loops?

Slide 59, 60